

THIRD-ORDER LEVELING
SEA LEVEL DATUM OF 1929

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

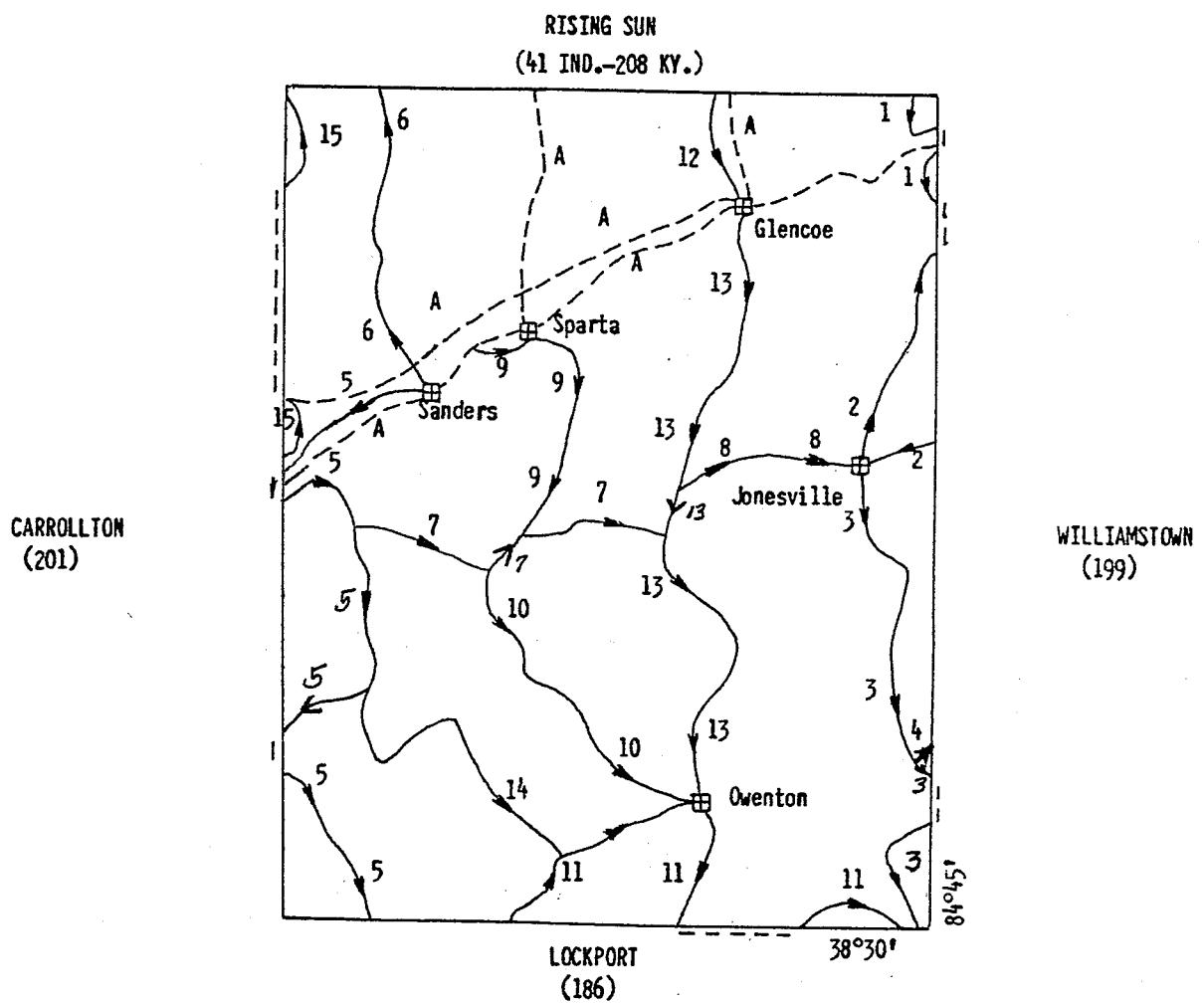
38-084-43
OWENTON QUADRANGLE
200 KENTUCKY
N3830-W8445/15
DIAGRAM NJ 16-6
LOUISVILLE

Carroll, Gallatin, Grant and
Owen Counties.

Final adjustment of 1973

Edition of 5/3/74

PR: DSW/mjh



NGS (USC&GS) VERTICAL CONTROL DATA

A. Quadrangle 380844

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ISOLATED BENCH MARKS (By L. S. Smith, 1906; Book 6508)

Pleasant Home; on N. side of Owenton-Clear Lick Pike; in chimney of residence of W. H. Lowdenback; standard tablet stamped "888"

887.449

LINE 1.

By E. O. Miner, 1949; Book AV 86

3 6 2.76 U. E., 20 ft W. of center of small culvert; on stone retaining wall; chiseled square

578.46

Jogs into Williamstown quadrangle

3 8 3.45 U. E., 1 ft lower than rd.; at SE. corner of iron bridge; on bolt; chiseled cross

563.15

3 8 4.18 U. E., 5 ft N. of NE. corner of steel bridge; on top of masonry wingwall; chiseled square

560.55

3 9 4.59 U. E., 10 ft W. of centerline of rd.; on top of N. corner of concrete steps in front of farmhouse; chiseled square

563.92

LINE 2.

By E. O. Miner, 1949; Book AV 86

3 64 15.13 U. E., 30 ft S. of centerline of State Highway 36; 10 ft W. of gate; on flat stone; chiseled square

863.47

3 65 16.23 Jonesville; 30 ft E. of junction of Y-rd. N. to Glencoe; 3 ft SE. edge of State Highway 36; in NW. wall of catchment basin of culvert; standard tablet stamped "39 EOM 1949 914"

914.203

3 65 16.22 Reference mark; 42 ft NW. of tablet; on N. concrete headwall of culvert; chiseled square

913.42

3 68 18.52 Jonesville, 1.9 mi N. of; 15 ft S. and 30 ft W. of SW. corner of Mackatee School; 10 ft S. and 30 ft E. of junction of private rd. W.; 15 ft W. of flag pole; in concrete post; standard tablet stamped "IT STA NO 30 TN 1929 880"

880.363

3 72 20.44 Folsom, 2.1 mi S. of, along rd. to Jonesville; 5 ft W. of SW. corner of iron bridge over Eagle Creek; in concrete retaining wall; standard tablet stamped "40 EOM 1949 588" *see next at end of quad*

597.535
588.255

3 73 21.54 Reference mark; 180 ft SW. of tablet; 1 ft lower than rd.; on SE. abutment of bridge; chiseled square

565.94

3 73 21.58 Folsom, 1.1 mi S. of; 30 ft S. and 10 ft W. of triangle at rd. fork S. to Jonesville and E. to Stewartsville; 5 ft E. of NW. corner post of fence around large pasture; in concrete post; standard tablet stamped "IT STA NO 29 TN 1929 571"

571.781

3 74 22.06 U. E., at NE. corner of bridge; on SE. corner of masonry abutment; chiseled square

598.79

OWENTON QUADRANGLE
Book AV 86

200 KENTUCKY

E. O. Miner

38-084-43

4

1949

LINE 3.

Feet

By E. O. Miner, 1949; Book AV 86

4 1	0.00	"39 EOM 1949 914" (Described in line 2)	914.203
4 2	2.10	Jonesville, 2.1 mi S. of, along State Highway 36; 25 ft W. of junction of graveled T-rd. E.; 3 ft E. of fence; in concrete post; standard tablet stamped "41 EOM 1949 920"	920.601
4 4	3.68	Jonesville, 2.1 mi S. of, along State Highway 36, thence 1.0 mi E., thence 0.6 mi S.; 60 ft SW. of small cemetery; 20 ft W. of curve in rd.; 1 ft S. of fence; in concrete post; standard tablet stamped "42 EOM 1949 899"	898.752
4 8	5.87	Jonesville, 6.3 mi S. of; 2.5 mi N. of Sweet Owen, along Mt. Carmel-Pleasant Ridge rd.; 1.2 mi N. of Pleasant Ridge Church; 30 ft N. of rd. forks; 15 ft W. of large oak tree; in concrete post; standard tablet stamped "TT STA NO 33 TN 1929 900"	900.058
4 9	6.45	U. E., 40 ft SE. of centerline of rd.; on middle of lower concrete step in front of school; chiseled square	908.74
4 10	7.12	Sweet Owen, 1.0 mi NW. of; 60 ft W. of middle of triangle formed by junction of Y-rd. at Pleasant Ridge Church; in N. end of second lowest concrete step; standard tablet stamped "43 EOM 1949 934"	933.984
4 11	8.08	U. E., 225 ft NW. of junction of Y-rds. at Sweet Owen; on N. end of W. concrete headwall of culvert; chiseled square	937.10
4 12	8.57	Sweet Owen, 0.5 mi SE. of, along State Highway 22; 15 ft S. and 20 ft E. of third class rd. forks S. to Breck; 2 ft S. of NW. corner post of fence around barn lot of P. L. Lyons; in concrete post; standard tablet stamped "TT STA NO 34 TN 1929 920" (Tied by NGS, 1949)	919.766
4 13	9.66	U. E., at S. corner of barn; on foundation stone; chiseled square	832.37
4 16	10.63	Sweet Owen, 2.5 mi S. of; 2.0 mi W. of bridge at Lusby Mill, along State Highway 330; 35 ft S. of junction of poor Y-rd. NW. at SW. edge of drive to barn; 2 ft NW. of fence; in concrete post; standard tablet stamped "44 EOM 1949 868"	867.568
4 17	11.77	Lusby Mill, 3.2 mi SW. of, along State Highway 330 from hwy. bridge; 25 ft S. of, and 7 ft higher than junction of field T-rd. SE.; 2 ft N. of fence; in concrete post; standard tablet stamped "TT STA NO 35 TN 1929 903"	903.194
4 18	12.30	U. E., 25 ft S. of SE. corner of lawn; on W. concrete headwall of culvert; chiseled square	914.780

OWENTON QUADRANGLE
Book AV 86

200 KENTUCKY

E. O. Miner

38-084-43

5

1949

LINE 4.

Feet

By E. O. Miner, 1949; Book AV 86

4 26 0.00 "TT STA NO 34 TN 1929 920" (Described in line 3) 919.766

LINE 5.

By J. W. McLaughlin, 1949; Book AV 104

1 1 0.00	"D 30 1934" (NGS)	486.390
1 1 0.33	U. E., on SE. retaining wall of concrete bridge; chiseled square	479.36
1 1 0.83	U. E., centerline of junction of Y-rd. NW.,	475.065
1 1 1.12	Eagle Station, 2.7 mi E. of; 1.1 mi W. of Sanders; 30 ft N. and 20 ft S. of center of rd.; 20 ft N. and 50 ft W. of center of RR. crossing; in concrete post; standard tablet stamped "TT STA NO 48 TN 1929" (Tied by NGS, 1935)	481.994
1 2 1.51	U. E., on W. end of concrete retaining wall of bridge; chiseled square	479.49
1 2 2.22	U. E., 12 ft SE. of centerline of hwy.; on NE. end of concrete headwall of culvert; chiseled square	479.89
1 3 2.61	U. E., 15 ft SE. of centerline of hwy.; on SW. end of concrete headwall of culvert; chiseled square	484.44

Jogs into Carrollton quadrangle

1 4 4.29	U. E., on NE. abutment of iron bridge over Eagle Creek; chiseled square	471.83
1 5 5.04	Eagle Station, 1.5 mi SE. of, along Eagle Station-Wheatley rd.; 1.5 mi NW. of Wheatley; 20 ft W. of front gate to residence of Elsie Jacobs; 15 ft N. of centerline of rd.; in concrete post; standard tablet stamped "TT STA NO 58 TN 1929"	486.341
1 8 6.48	Wheatley, 0.2 mi NE. of post office; 33 ft W. of centerline of junction of I-rd. NW. to Eagle Station; 2 ft NE. of fence corner; in concrete post; standard tablet stamped "112 JWM 1949 904"	903.492
1 9 6.49	Reference mark; 45 ft SW. of tablet; 24 ft NW. of centerline of hwy.; in root on SE. side of 7-in. maple tree; copper nail and washer	899.40
1 10 6.99	U. E., 15 ft NE. of centerline of hwy.; on NW. end of concrete headwall of culvert; chiseled square	855.71
1 10 7.60	U. E., 15 ft NE. of centerline of rd.; on NW. end of L-shaped concrete culvert; chiseled square	838.20

LINE 5 (Cont'd.)feet

1 12 8.55	Wheatley, 1.9 mi S. of post office, along graveled rd.; 35 ft NW. of centerline of junction of Y-rd. NW. at S. end of curve at woods line; in concrete post; standard tablet stamped "113 JM 1949 766"	765.820
1 11 8.40	Reference mark; 800 ft NE. of tablet; 15 ft NW. of centerline of rd.; on SW. end of concrete headwall of bridge; chiseled square	754.02
1 13 9.73	U. E., 15 ft S. of centerline of hwy.; on E. end of concrete headwall of culvert; chiseled square	861.62
1 15 10.78	Wheatley, 4.1 mi SW. of post office, along graveled rd.; 2.5 mi NE. of Perry Park; 35 ft NW. of centerline of junction of Y-rd. SE.; 16 ft E. of fenceline; in concrete post; standard tablet stamped "114 JM 1949 628"	628.218
1 15 10.79	Reference mark; 35 ft SE. of tablet; 15 ft E. of centerline of junction; on N. end of concrete headwall of culvert; chiseled square	628.92

(Jogs into Carrollton Quadrangle)

1 17 12.08	U. E., on N. abutment of concrete bridge; chiseled square	466.06
1 17 12.46	U. E., 12 ft SW. of centerline of hwy.; on SE. end of concrete headwall of culvert; chiseled square	473.71
1 17 12.76	Reference mark; 930 ft W. of tablet; on SE. abutment of concrete bridge; chiseled square	467.99
1 18 12.94	Moxley, 1.4 mi SE. of; 0.4 mi N. of Balls Landing; 90 ft S. and 30 ft E. of center of iron bridge over Big Twin Creek; 20 ft N. of triangle at second-class rd. forks; in concrete post; standard tablet stamped "TT STA NO 61 TN 1929"	453.314
1 19 13.30	U. E., 40 ft SE. of centerline of crossroads at Perry Park; on S. end of concrete pipe culvert; chiseled square	476.77
1 19 14.27	U. E., 15 ft NE. of centerline of hwy.; on NW. end of concrete headwall of culvert; chiseled square	482.87
1 20 14.56	Reference mark; 440 ft NW. of tablet; on W. abutment of concrete bridge; chiseled square	478.35
1 20 14.64	Perry Park, 1.3 mi SE. of, along State Highway 355; 29 ft S. of S. corner of Mt. Zion Baptist Church; 28 ft NE. of centerline of hwy.; 2 ft SW. of fence corner; in concrete post; standard tablet stamped "115 JM 1949 486"	486.274
1 21 15.44	U. E., 15 ft W. of centerline of hwy.; on S. end of concrete headwall of culvert; chiseled square	552.17

LINE 5 (Cont'd.)Feet

1 23 15.99	Perry Park, 2.7 mi SE. of, along State Highway 355; 34 ft S. of S. corner of garage; 33 ft NE. of centerline of hwy.; 7 ft SW. of 8-in. locust tree on fenceline; in concrete post; standard tablet stamped "116 JWM 1949 84"	841.333
1 24 17.04	U. E., 15 ft E. of centerline of hwy.; on N. end of concrete headwall of culvert; chiseled square	854.42
1 27 19.29	Gratz; on N. side of residence of Joe Scott; in E. face of chimney; standard tablet stamped "484"	484.667

LINE 6.

By J. W. McLaughlin, 1949; Book AV 104

1 29 0.00	"D 30 1934" (NGS) (Also in line 5)	486.390
1 29 0.64	U. E., 15 ft W. of centerline of hwy.; on S. end of stone masonry culvert; chiseled square	488.68
1 29 1.04	U. E., 15 ft NE. of centerline of hwy.; on SE. end of stone masonry culvert; chiseled square	499.42
1 29 1.50	U. E., on W. abutment of small concrete bridge; chiseled square	517.16
1 30 2.12	Sanders, 2.1 mi N. of RR. station, along State Highway 47; 135 ft N. of centerline of junction of I-rd. NE.; 13 ft NW. of centerline of graveled rd.; 2 ft W. of fence corner; in concrete post; standard tablet stamped "118 JWM 1949 527" (Reported destroyed, 1950)	527.063
1 30 2.13	Reference mark; 45 ft S. of tablet; 10 ft W. of centerline of rd.; on S. end of concrete headwall of culvert; chiseled square	526.93
1 31 2.69	U. E., 7 ft W. of centerline of rd.; on S. end of concrete headwall of culvert; chiseled square	571.09
1 32 4.41	Sanders, 2.1 mi NW. of RR. station, along State Highway 47, thence 2.3 mi N. along graveled rd.; 15 ft W. of centerline of junction of I-rd. E.; 4 ft S. of fence corner; 2 ft SW. of telephone pole; in concrete post; standard tablet stamped "119 JWM 1949 686" (Reported not found, 1969)	685.874
1 32 4.42	Reference mark; 40 ft NE. of tablet; in root on S. side of 20-in. oak tree; copper nail and washer	684.23
1 33 5.08	U. E., 8 ft W. of centerline of rd.; on S. end of concrete headwall of culvert; chiseled square	668.71
1 34 6.49	Sanders, 2.1 mi NW. of RR. station, along State Highway 47, thence 4.4 mi N. along graveled rd.; 14 ft E. of centerline of rd.; 4 ft W. of fenceline; 1 ft SE. of telephone pole; in concrete post; standard tablet stamped "120 JWM 1949 587" (Reported not found, 1969)	587.065

LINE 6 (Cont'd.)

			<u>Feet</u>
1 35	6.68	Reference mark; 990 ft N. of tablet; 10 ft E. of centerline of rd.; on S. end of concrete headwall of culvert; chiseled square	556.85
1 35	7.19	U. E., 9 ft SW. of centerline of rd.; on E. corner of concrete foundation of well; chiseled square	504.37

LINE 7.

By J. W. McLaughlin, 1949; Book AV 104

1 41	0.00	"112 JWM 1949 904" (Described in line 5)	903.492
1 42	2.33	Wheatley, 2.5 mi SE. of post office, along U. S. Highway 227; 50 ft S. of, and about 3 ft lower than junction of Highway 227 and State Highway 325; 4 ft N. of telephone pole; in concrete post; standard tablet stamped "121 JWM 1949 914"	913.983
1 43	2.43	Reference mark; 530 ft E. of tablet; 15 ft S. of centerline of hwy.; on center of stone masonry culvert; chiseled square	907.89
1 44	3.62	U. E., 13 ft SE. of centerline of hwy.; on SW. end of stone masonry culvert; chiseled square	869.28
1 44	4.11	Reference mark; 105 ft SW. of tablet; 27 ft S. of centerline of junction of U. S. Highway 227 and State Highway 36; on SW. end of concrete headwall of culvert; chiseled square	890.14
1 44	4.13	New Liberty; 88 ft E. of centerline of junction of U. S. Highway 227 and State Highway 36; 2 ft SW. of telephone pole; in concrete post; standard tablet stamped "122 JWM 1949 894"	893.566
1 45	5.15	U. E., 13 ft S. of centerline of hwy.; 3 ft E. of W. end of stone masonry culvert; chiseled square	889.57
1 46	5.97	New Liberty, 1.8 mi E. of, along U. S. Highway 227; 23 ft SE. of centerline of hwy.; 19 ft SW. of W. corner of barn; 2 ft NW. of gatepost; in concrete post; standard tablet stamped "123 JWM 1949 901"	901.140
1 46	6.01	Reference mark; 210 ft NE. of tablet; 18 ft NW. of centerline of hwy.; on SE. end of concrete headwall of culvert; chiseled square	904.08
1 48	7.52	Long Ridge, 2.8 mi NW. of, along State Highway 35; 26 ft SE. of centerline of junction of State Highways 35 and 36; 2 ft W. of telephone pole; in concrete post; standard tablet stamped "109 JWM 1949 903"	903.312

OWENTON QUADRANGLE
Book AV 104

200 KENTUCKY J. W. McLaughlin

38-084-43

9

1949

LINE 8.

Feet

By J. W. McLaughlin, 1949; Book AV 104

1 50	0.00	U. E., 12 ft W. of centerline of hwy.; on N. end of concrete headwall of culvert; chiseled square	918.06
1 51	2.49	Jonesville, 2.3 mi W. of, along graveled rd.; 68 ft SE. of SE. corner of white frame house; 15 ft N. of centerline of rd.; 3 ft S. of fence post; in concrete post; standard tablet stamped "124 JWM 1949 867"	867.467
1 51	2.51	Reference mark; 110 ft E. of tablet; 16 ft S. of centerline of rd.; in base of N. side of twin thorn tree; rail spike	864.52
1 55	4.75	"39 EOM 1949 914" (Described in line 2)	914.203

LINE 9.

By J. W. McLaughlin, 1949; Book AV 104

1 56	0.00	"C 30 1934" (NGS)	503.240
1 56	0.84	U. E., on base on SW. side of concrete semaphore No. 641; chiseled square	497.60
1 56	1.47	Sparta, 18 ft W. and 167 ft S. of SW. corner of depot; 42 ft NW. of N. rail of main track of L. & N. RR.; 4 ft NW. of telephone pole; in concrete post; standard tablet stamped "TT 26 DWP 1949"	502.670
1 57	1.53	Reference mark; on W. concrete abutment of iron bridge over Eagle Creek; chiseled square	502.01
1 57	2.15	U. E., 15 ft N. of centerline of hwy.; on E. end of concrete headwall of culvert; chiseled square	500.86
1 58	3.22	U. E., 120 ft E. of centerline of junction of Y-rd. SE.; on E. end of concrete headwall of culvert; chiseled square	610.87
1 58	3.04	U. E., on SE. abutment of iron and wooden bridge; chiseled square	534.11
1 59	3.39	U. E., on NE. abutment of Wooden bridge; chiseled square	630.34
1 60	3.86	Reference mark; 270 ft E. of tablet; 10 ft S. of centerline of rd.; in root on NW. side of 14-in. locust tree; copper nail and washer	797.56
1 60	3.91	Sparta, 2.4 mi SE. of; 3.7 mi NE. of New Liberty; 33 ft E. of centerline of private drive E.; 10 ft E. of E. gatepost; 4 ft N. of fenceline; in concrete post; standard tablet stamped "126 JWM 1949 800"	798.969

LINE 9 (Cont'd.)Feet

1 63	5.65	New Liberty, 1.9 mi N. of, along graveled rd.; in center of small triangle formed by junction of Y-rd. SW.; 3 ft W. of mailbox of Virgil Souder; in concrete post; standard tablet stamped "125 JMM 1949 861"	859.594
1 64	7.59	"122 JMM 1949 894" (Described in line 7)	893.566

LINE 10.

By J. W. McLaughlin, 1949; Book AV 104

1 65	0.00	"UE 901.1" (Described in line 7)	901.01
1 66	2.05	Cull, 0.8 mi N. of, along graveled rd.; 22 ft E. of centerline of private drive NE.; 3 ft S. of SE. gatepost; in concrete post; standard tablet stamped "131 JMM 1949 807"	807.152
1 69	3.14	U. E., on NW. abutment of iron bridge; chiseled square	611.25
1 70	4.10	Cull, 1.3 mi SE. of, along graveled rd.; 4.3 mi NW. of Owenton; 19 ft NW. of dim crossroads; 8 ft N. of N. gatepost; 2 ft E. of fenceline; in concrete post; standard tablet stamped "132 JMM 1949 669"	669.47
1 72	5.94	Owenton, 0.7 mi SW. of courthouse, along State Highway 22, thence 1.8 mi NW. along graveled rd.; 21 ft NE. of centerline of private rd. N.; 6 ft W. of 16-in. elm tree; 5 ft SW. of fenceline; in concrete post; standard tablet stamped "133 JMM 1949 733"	733.283
1 73	5.97	Reference mark; 180 ft SE. of tablet; on S. concrete abutment of bridge; chiseled square	732.60
1 75	7.92	Owenton, 0.5 mi W. of Owen County courthouse; 100 ft E. of blockhouse; 27 ft W. of junction of centerline of State Highway 22 and Y-rd. SW.; 14 ft S. of centerline of driveway; 2 ft E. of white board fence; standard tablet stamped "TT 15 DWP 1949"	959.588

LINE 11.

By J. W. McLaughlin, 1949; Book AV 104

2 1	0.00	"484" (Described in line 5)	484.667
2 5	3.40	Owenton, 5.6 mi SW. of Owen County Courthouse, along State Highway 22; at Pleasant Home; 50 ft W. of NW. corner and in line with N. side of church; 44 ft S. of hwy.; 21 ft S. and 13 ft E. of fence corner; in concrete post; standard tablet stamped "TT 18 DWP 1949"	883.420
2 6	3.48	Reference mark; 420 ft NE. of tablet; 10 ft SE. of centerline of hwy.; on E. end of stone masonry culvert; chiseled square	876.95

LINE 11 (Cont'd.)

			<u>feet</u>	
2	7	5.45	Reference mark; 30 ft SW. of tablet; 10 ft S. of centerline of hwy.; on E. end of stone masonry culvert; chiseled square	907.60
2	7	5.46	Owenton, 3.8 mi SW. of, along State Highway 22; 2.1 mi NE. of Pleasant Home; 100 ft E. of junction of T-rd.; 16 ft N. of, and 2 ft lower than State Highway 22; 16 ft E. of powerline pole; 2 ft N. and 2 ft W. of fence corner; in concrete post; standard tablet stamped "TT 17 DWP 1949"	906.370
2	8	6.93	Owenton, 2.3 mi SW. of, along State Highway 22; 3.6 mi N. of Pleasant Home; 300 ft NW. of white house; 16 ft NW. of centerline of hwy.; 4 ft S. and 23 ft W. of centerline of hwy. at junction of private drive W.; 2 ft E. of fence; in concrete post; standard tablet stamped "TT 16 DWP 1949"	911.635
2	10	8.71	"TT 15 DWP 1949" (Described in line 10)	959.588
2	12	10.90	Reference mark; 40 ft N. of tablet; in NE. corner of concrete foundation of gas pumps; chiseled square	957.22
2	13	10.91	Owenton, 1.7 mi SE. of courthouse, along State Highway 22; 90 ft SW. of centerline of junction of T-rd. S.; 12 ft SE. of SE. corner of former gasoline station; 3 ft E. of telephone pole; in concrete post; standard tablet stamped "101 JWM 1949 957"	957.358

Jogs into Lockport quadrangleLINE 12.

By J. W. McLaughlin, 1949; Book AV 104

2	27	2.96	Glencoe, 3.9 mi N. of RR. station; along State Highway 239; 40 ft SE. of centerline of junction of Y-rd. S.; 33 ft SW. of 12-in. elm tree; in concrete post; standard tablet stamped "104 JWM 1949 515" (Tied by NGS, 1964)	514.917
2	27	2.97	Reference mark; 65 ft N. of tablet; 12 ft NW. of centerline of hwy.; on SW. end of concrete headwall of culvert; chiseled square,	514.44
2	28	3.44	U. E., on E. abutment of concrete bridge; chiseled square	533.12
2	28	4.03	U. E., 85 ft S. of centerline of private drive SE.; on NE. end of concrete headwall of culvert; chiseled square	555.13
2	29	4.80	Reference mark; 30 ft NE. of tablet; 15 ft NE. of centerline of hwy.; on NW. end of concrete headwall of culvert; chiseled square	605.51
2	30	4.81	Glencoe, 2.0 mi N. of RR. station, along State Highway 239; 17 ft SW. of centerline of hwy.; 2 ft NE. of telephone pole; in concrete post; standard tablet stamped "105 JWM 1949 608" (Tied by NGS, 1964) (Reported destroyed, 1969)	608.795

LINE 12 (Cont'd.)

			<u>Feet</u>
2 30	5.74	U. E., 155 ft NW. of junction of State Highways 239 and 455; on S. end of concrete headwall of L-shaped culvert; chiseled square	707.26
2 32	6.85	Glencoe, 155 ft E. of SE. corner of L. & N. RR. depot; 53 ft N. of N. rail of main track; 38 ft S. of centerline of rd.; in concrete post; standard tablet stamped "TT STA NO 51 TN 1929" (Tied by NGS, 1935)	543.821

LINE 13.

By J. W. McLaughlin, 1949; Book AV 104

2 33	0.00	"TT STA NO 51 TN 1929" (Described in line 12)	543.821
2 33	0.74	Glencoe, 0.5 mi S. of, along State Highway 16; on S. end of stone and masonry retaining wall of iron bridge over Eagle Creek; standard gaging station reference mark tablet designated "BM NO 3"	535.78
2 36	2.87	Glencoe, 2.9 mi S. of RR. station, along State Highway 16; 48 ft NW. of centerline of junction of I-rd. W.; 17 ft N. of fence corner; 2 ft E. of fenceline; in concrete post; standard tablet stamped "106 JWM 1949 889"	888.822
2 36	2.92	Reference mark; 240 ft SE. of tablet; 31 ft E. of centerline of hwy.; in root on N. side of 14-in. elm tree; copper nail and washer	882.06
2 37	3.36	U. E., 12 ft W. of centerline of hwy.; on N. end of concrete headwall of culvert; chiseled square	879.16
2 37	3.72	U. E., 12 ft SE. of centerline of hwy.; on NE. end of concrete headwall of culvert; chiseled square	882.32
2 38	4.63	Glencoe, 4.6 mi S. of RR. station, along State Highway 16; 27 ft N. of NW. corner of Poplar Grove Baptist Church; 25 ft S. of centerline of hwy.; 3 ft N. of stone wall; in concrete post; standard tablet stamped "107 JWM 1949 892"	891.535
2 38	4.66	Reference mark; 150 ft W. of tablet; 12 ft N. of centerline of hwy.; on E. end of concrete headwall of culvert; chiseled square	888.24
2 39	5.06	U. E., 12 ft W. of centerline of hwy.; on N. end of concrete headwall of culvert; chiseled square	903.04
2 39	5.54	U. E., 17 ft SW. of centerline of private drive W.; on N. end of concrete headwall of culvert; chiseled square	906.564
2 39	6.05	U. E., 18 ft SE. of centerline of hwy.; on NE. end of concrete headwall of culvert; chiseled square	908.02
2 39	6.32	Reference mark; 110 ft NW. of tablet; 15 ft SW. of centerline of hwy.; on SE. end of concrete headwall of culvert; chiseled square	913.64

LINE 13 (Cont'd.)Feet

2 41	6.34	Poplar Grove Baptist Church, 1.7 mi S. of; 4.6 mi N. of Long Ridge, along State Highway 35; 16 ft SW. of centerline of junction of State Highways 16 and 35; 3 ft NE. of fenceline; 3 ft N. of telephone pole; in concrete post; standard tablet stamped "108 JWM 1949 914"	913.946
2 42	7.86	U. E., 30 ft W. of pond; 10 ft W. of centerline of hwy.; on N. end of concrete headwall of culvert; chiseled square	895.45
2 42	8.09	"109 JWM 1949 903" (Described in line 7)	903.212
2 42	8.11	Reference mark; 100 ft S. of tablet; 14 ft E. of centerline of hwy.; on S. end of concrete headwall of culvert; chiseled square	901.63
2 43	8.73	U. E., 22 ft E. of centerline of hwy.; in base on E. side of telephone pole; rail spike	930.60
2 43	9.25	U. E., 11 ft NE. of centerline of hwy.; on SE. end of concrete headwall of culvert; chiseled square	920.22
2 45	9.80	Long Ridge, 1.1 mi NW. of, along State Highway 35; 34 ft E. of centerline of junction of T-rd. NE.; 8 ft N. of telephone pole; 2 ft NW. of fenceline; on bank about 2 ft higher than roadbed; in concrete post; standard tablet stamped "110 JWM 1949 946"	945.799
2 46	10.29	U. E., 13 ft NE. of centerline of hwy.; on NE. end of concrete headwall of culvert; chiseled square	935.07
2 46	10.93	U. E., Long Ridge, 190 ft N. of centerline of junction of State Highways 35 and 36; 11 ft E. of centerline of State Highway 35; on N. end of concrete headwall of culvert; chiseled square	935.53
2 46	11.24	Long Ridge, 0.3 mi S. of junction of State Highways 33 and 35; 3.9 mi N. of Owenton; 25 ft N. and 50 ft E. of centerline of hwy. opposite T-rd. SE. to Sweet Owen; 2 ft W. of SW. corner post of fence around tobacco field; in concrete post; standard tablet stamped "TT STA NO 55 TM 1929"	952.786
2 46	11.25	Reference mark; 40 ft SW. of tablet; 30 ft SE. of centerline of junction of T-rd. E.; on W. end of concrete headwall of culvert; chiseled square	953.20
2 47	11.84	U. E., 12 ft SE. of centerline of hwy.; on NE. end of concrete headwall of culvert; chiseled square	932.31
2 48	12.74	U. E., 12 ft NW. of centerline of hwy.; on SW. end of concrete headwall of culvert; chiseled square	947.08
2 48	13.02	Owenton, 2.0 mi N. of, along State Highway 35; 2.3 mi S. of Long Ridge, along State Highway 35; 75 ft N. of private rd. E.; 7 ft N. and 42 ft E. of junction of T-rd. W.; 2 ft W. of fence; 2 ft E. of light pole; in concrete post; standard tablet stamped "TT 14 DWP 1949"	965.490

LINE 13 (Cont'd.)

			<u>Feet</u>
2 48	13.14	Reference mark; 640 ft SW. of tablet; 12 ft NW. of centerline of hwy.; on NE. end of concrete headwall of culvert; chiseled square	945.66
2 49	13.62	U. E., 12 ft E. of centerline of hwy.; on N. end of concrete headwall of culvert; chiseled square	952.82
2 49	14.09	U. E., 12 ft W. of centerline of hwy.; on N. end of concrete headwall of culvert; chiseled square	979.43
2 49	14.66	U. E., 12 ft W. of centerline of hwy.; on S. end of concrete headwall of culvert; chiseled square	963.80
2 50	15.09	"TT 15 DWP 1949" (Described in line 10)	959.588

LINE 14.

By J. W. McLaughlin, 1949; Book AV 104

2 52	0.00	"UE 867.4" (Described in line 5)	867.300
2 56	2.93	Reference mark; 270 ft NW. of tablet; 11 ft SW. of centerline of rd.; in base on NW. side of 10-in. tree; rail spike	464.45
2 57	2.98	Wheatley, 5.5 mi S. of; 1.4 mi W. of White Chapel School; 24 ft NW. of W. corner of barn; 19 ft NE. of centerline of rd.; in concrete post; standard tablet stamped "127 JWM 1949 473"	473.133
2 58	4.37	U. E., on W. abutment of iron bridge; chiseled square	512.19
2 58	4.53	White Chapel School, 0.1 mi N. of; 58 ft SW. of SW. corner of white frame house; 30 ft N. of centerline of junction of Y-rd. SE.; 10 ft S. of 12-in. poplar tree; in concrete post; standard tablet stamped "128 JWM 1949 520"	519.627
2 62	6.14	White Chapel School, 1.7 mi SE. of; 3.2 mi NE. of Squiresville; 62 ft SE. of S. corner of barn; 24 ft N. of centerline of field rd. NE.; 3 ft W. of W. gatepost; in concrete post; standard tablet stamped "129 JWM 1949 853"	853.610
2 64	7.70	Squiresville, 2.6 mi SE. of, along macadam rd.; 25 ft NW. of centerline of drive N. to Ligon Bros. farm; 5 ft W. and 2 ft S. of fence corner; in concrete post; standard tablet stamped "130 JWM 1949 890"	889.756
2 66	9.42	"TT 17 DWP 1959" (Described in line 11)	906.370

LINE 15.Feet

By F. Ludke, 1950; Book AV 190

- | | | |
|-----------|--|---------|
| 14 4 0.94 | Reference mark; 100 ft S. of tablet; 18 ft SE. of centerline of junction of Y-rd.; on concrete bridge; chiseled square | 757.26 |
| 14 4 1.62 | Eagle Station, 1.8 mi N. of, along Eagle Station-Ghent Pike; 100 ft S. and 20 ft E. of second-class rd. fork; 20 ft S. and 20 ft E. of T-rd. S.; 3 ft E. of oak tree used as NW. corner post; in concrete post; standard tablet stamped "TT STA NO 47 TN 1929 752" | 752.042 |

[Jogs into Carrollton quadrangle]

- | | | |
|-------------|---|---------|
| 14 24 9.39 | U. E., on NW. headwall of plank bridge over small creek; chiseled square | 663.21 |
| 14 27 10.19 | Reference mark No. 1; 120 ft N. of disk; 17 ft W. of centerline of dirt rd.; 3 ft S. of white witness post; 2 ft S. of telephone pole; in concrete post; NGS standard reference mark disk stamped "HILL NO 1 1947" | 837.266 |
| 14 27 10.52 | Ghent, 4.0 mi E. of; on E. side of field NE. of farmhouse of F. L. Montgomery; 26 ft W. of centerline of graveled rd.; 24 ft N. of 12-in. locust tree; 12 ft W. of E. fence of field; in concrete post; standard NGS triangulation station disk stamped "HILL 1947" | 841.653 |

R E S E T

10-23-91

OWENTON QUADRANGLE
200 KENTUCKY

FOLSOM, 2.1 MI S. OF, ON STATE ROAD 1132; IN SW. ABUTMENT OF 300 FT CONCRETE
BRIDGE OVER LITTLE EAGLE CREEK; 15 FT W. OF CENTERLINE, ABOUT 1 FT LOWER THAN
ROAD; STANDARD TABLET STAMPED "40 EOM 1949 RESET 1989"

RESET ELEVATION 597.535 FT
182.129 M

RESET BY
LEXINGTON, KENTUCKY
JUNE 27, 1989

HORIZONTAL CONTROL
NORTH AMERICAN DATUM OF 1927

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

38-084-43
OWENTON QUADRANGLE
200 KENTUCKY
N3830-W8445/15
DIAGRAM NJ 16-6
LOUISVILLE

Carroll, Gallatin, Grant, Henry,
and Owen Counties

Edition of 5/26/77

Only the permanent marks are
listed for control classified
obsolete and are not shown on
sketch

PR: CRV/rmm

Plane coordinates are based on Lambert
projection, Kentucky, North Zone

RISING SUN
(208 KY.-41 IND.)

CARROLLTON
(201)

WILLIAMSTOWN
(199)

■■■■ Owenton

84°04'5"

38°30'

LOCKPORT
(186)

DISCLAIMER

We no longer attest to the validity of the positions listed for horizontal control established by transit traverse procedures. This control is now considered OBSOLETE and is included in this list for the purpose of identification only.

INDEX OF PERMANENT MARKS

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200 KENTUCKY
OWENTON QUADRANGLE

38-084-43

3

STATION	DESCRIPTION	LATITUDE	LONGITUDE
	PLANE COORDINATES, FEET	° ° "	° ° "

The following positions are considered OBsolete. To be used only to locate permanent marks in the field.

By E. M. Thompson, 1929; Books C8961-62

Folsom, 1.1 mi S. of; 30 ft S. and 10 ft W. of triangle formed by junction of rd. S. to Jonesville and E. to Stewartsville; 5 ft E. of NW. corner post of fence around large pasture; in concrete post; standard tablet stamped "TT STA NO 29 TN 1929"

X = 1,856,965	Y = 436,762	38 41 53.88	84 45 04.18
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Jonesville, 1.9 mi N. of; 15 ft S. and 30 ft W. of SW. corner of Mackatee School; 10 ft S. and 30 ft E. of centerline of rd. at junction of private rd. W.; 15 ft W. of flagpole; in concrete post; standard tablet stamped "TT STA NO 30 TN 1929"

X = 1,852,298	Y = 425,880	38 40 06.06	84 46 02.28
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Jonesville; 50 ft N. and 40 ft E. of front entrance to store of W. L. Vanuorsdall; 30 ft N. and 20 ft E. of centerline of rd. at junction of rd. N. to Glencoe; 5 ft N. of telephone pole; in concrete post; standard tablet stamped "TT STA NO 31 TN 1929" (Reported destroyed, 1949)

X = 1,849,898	Y = 415,511	38 38 23.43	84 46 31.79
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Jonesville, 3.7 mi SW. of, along State Highway 36; 1.6 mi NE. of Long Ridge; 10 ft S. and 20 ft E. of triangle formed by junction of rds.; 15 ft E. of centerline of hwy. at junction of T-rd. S.; in concrete post; standard tablet stamped "TT STA NO 32 TN 1929"

X = 1,841,286	Y = 399,601	38 35 45.66	84 48 19.13
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Jonesville, 6.3 mi S. of; 2.5 mi N. of Sweet Owen, 1.2 mi N. of Pleasant Ridge Church; 30 ft N. of junction of rds.; 15 ft W. of large oak tree; in concrete post; standard tablet stamped "TT STA NO 33 TN 1929"

X = 1,851,488	Y = 394,455	38 34 55.37	84 46 10.26
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Lusbys Mill, 3.2 mi SW. of, along State Highway 350; 25 ft S. of and 7 ft higher than centerline of hwy. at junction of field rd. SE.; 2 ft N. of fence; in concrete post; standard tablet stamped "TT STA NO 35 TN 1929 903"

X = 1,854,612	Y = 369,845	38 30 52.27	84 45 29.21
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Eagle Station, 1.8 mi N. of, along Eagle Station-Ghent Pike; 100 ft S. and 20 ft E. of junction of rd. S.; 20 ft S. and 20 ft E. of junction of private T-rd. E.; 3 ft E. of oak tree used as NW. corner post of fence around pasture; in concrete post; standard tablet stamped "TT STA NO 47 TN 1929 752"

X = 1,786,771	Y = 420,809	38 39 11.48	84 59 47.90
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200 KENTUCKY
OWENTON QUADRANGLE

38-084-43

4

STATION	DESCRIPTION	LATITUDE	LONGITUDE
	PLANE COORDINATES, FEET	° ' "	° ' "

OBsolete MARKS (Cont'd)

Eagle Station, 2.7 mi E. of; 1.1 mi W. of Sanders; along State Highway 36; 20 ft N. and 50 ft W. of railroad crossing; 30 ft N. of track; 20 ft S. of centerline of hwy.; in concrete post; standard tablet stamped "TT STA NO 48 TN 1929"

X = 1,795,020 Y = 420,638 38 39 10.45 84 58 03.92

Sanders, 1.9 mi NE. of; 1.2 mi W. of Sparta; 20 ft S. and 20 ft E. of rd. crossing RR.; 20 ft S. of centerline of track; in concrete post; standard tablet stamped "TT STA NO 49 TN 1929"

X = 1,807,736 Y = 428,286 38 40 27.00 84 55 24.33

Sparta, 1.9 mi NE. of; 3.6 mi SW. of Glencoe; 550 ft NE. of Kentucky Eagle Stock Farm; 30 ft N. of centerline of rd.; 15 ft S. of private rd. crossing Louisville and Nashville Railroad; 3 ft S. of milepost 67; in concrete post; standard tablet stamped "TT STA NO 50 TN 1929"

X = 1,820,601 Y = 434,973 38 41 34.00 84 52 42.69

Glencoe; 155 ft E. of SE. corner of L. & N. RR. station; 53 ft N. of N. rail of main track; 38 ft S. of centerline of rd.; in concrete post; standard tablet stamped "TT STA NO 51 TN 1929"

X = 1,836,190 Y = 442,682 38 42 51.20 84 49 26.69

Glencoe, 3.0 mi NE. of; 1.5 mi SW. of Elliston; 10 ft N. of centerline of RR. tracks; at SW. end of RR. tunnel; in limestone rock; standard tablet stamped "TT STA NO 52 TN 1929"

X = 1,849,852 Y = 446,038 38 43 25.18 84 46 34.57

By E. M. Thompson, 1929; Book C8962

Sparta, 2.5 mi SE. of, along State Highway 35; 10 ft N. and 25 ft E. of centerline of rd. at junction of rd. E.; 5 ft E. of SE. corner post of fence around pasture; in concrete post; standard tablet stamped "TT STA NO 53 TN 1929"

X = 1,823,184 Y = 423,186 38 39 37.65 84 52 09.11

Long Ridge, 2.8 mi NW. of; 40 ft S. and 15 ft W. of junction of State Highways 35 and 36; 5 ft S. of NE. corner post of fence around pasture; in concrete post; standard tablet stamped "TT STA NO 54 TN 1929" (Reported destroyed, 1949)

X = 1,827,992 Y = 406,809 38 36 56.08 84 51 07.15

Owenton, 0.5 mi N. of, along State Highway 35; 40 ft W. of entrance to I.O.O.F. Cemetery; 15 ft N. and 20 ft W. of centerline of hwy. at junction of private T-rd. W.; in concrete post; standard tablet stamped "TT STA NO 56 TN 1929" (Reported destroyed, 1949)

X = 1,831,000 Y = 380,944 38 32 40.60 84 50 27.17

200 KENTUCKY
OWENTON QUADRANGLE

38-084-43

5

STATION	DESCRIPTION	LATITUDE	LONGITUDE
	PLANE COORDINATES, FEET	° ' "	° ' "

OBsolete MARKS((Cont'd.)

Owenton, 2.1 mi SE. of, along U.S. Highway 227; 30 ft N. and 10 ft E. of centerline of hwy. at junction of rd. NE.; 30 ft E. of locust tree; in concrete post; standard tablet stamped "TT STA NO 57 TN 1929"
(Not found, 1949)

X = 1,840,676 Y = 373,513 38 31 27.73 84 48 24.82

By E. M. Thompson, 1929; Book C8964

Eagle Station, 1.5 mi SE. of, along Eagle Station-Wheatley Road; 1.5 mi NW. of Wheatley; 15 ft N. of centerline of rd.; 20 ft W. of front gate to residence of Elise Jacobs; in concrete post; standard tablet stamped "TT STA NO 58 TN 1929"

X = 1,790,194 Y = 412,584 38 37 50.46 84 59 03.94

Wheatley, 1.5 mi SW. of, along U.S. Highway 227; 25 ft N. and 15 ft W. of centerline of hwy. at junction of private T-rd. W.; 2 ft E. of SE. corner post of fence around pasture; in concrete post; standard tablet stamped "TT STA NO 59 TN 1929" (Reported destroyed, 1969)

X = 1,787,977 Y = 401,179 38 35 57.54 84 59 30.71

Moxley, 1 1/4 mi SE. of, along State Highway 355; 0.4 mi N. of Balls Landing; 90 ft S. and 30 ft E. of center of iron bridge over Big Twin Creek; 20 ft N. of triangle at rd. forks; in concrete post; standard tablet stamped "TT STA NO 61 TN 1929"

X = 1,786,674 Y = 383,781 38 33 05.46 84 59 45.34

Gratz, 3.2 mi NW. of, along State Highway 355; 20 ft N. and 10 ft E. of centerline of hwy. at junction of private T-rd. E.; 5 ft N. and 10 ft W. of N. concrete gatepost; in concrete post; standard tablet stamped "TT STA NO 62 TN 1929" (Reported destroyed, 1950)

X = 1,793,682 Y = 368,983 38 30 39.73 84 58 15.68

By D. W. Pinkston, 1949; Book AH 128

Long Ridge, 0.3 mi S. of, along State Highway 35; 3.9 mi N. of Owenton; 25 ft N. and 50 ft E. of centerline of hwy. at junction of T-rd. SE.; 2 ft W. of SW. corner post of fence around tobacco field; in concrete post; standard tablet stamped "TT STA NO 55 TN 1929"

X = 1,836,155 Y = 394,542 38 34 55.34 84 59 23.36

Owenton, 0.5 mi W. of Owen County Courthouse; 100 ft E. of blockhouse; 27 ft W. of centerline of State Highway 22 at junction of Y-rd. SW.; 14 ft S. of centerline of driveway; 2 ft E. of white board fence; in concrete post; standard tablet stamped "TT 15 DWP 1949"

X = 1,829,714 Y = 377,633 38 32 07.78 84 50 43.09

200 KENTUCKY
OWENTON QUADRANGLE

38-084-43

6

STATION	DESCRIPTION	LATITUDE	LONGITUDE
	PLANE COORDINATES, FEET	° ' "	° ' "

OBSOLETE MARKS (Cont'd.)

Owenton, 2.3 mi SW. of, along State Highway 22; 3.6 mi NE. of Pleasant Home; 300 ft NW. of white house; 16 ft NW. of centerline of hwy.; 4 ft S. and 23 ft W. of centerline of hwy. at junction of private drive W.; 2 ft E. of fence; in concrete post; standard tablet stamped "TT 16 DWP 1949"

X = 1,821,679 Y = 374,670 38 31 37.97 84 52 23.95

Owenton, 3.8 mi SW. of, along State Highway 22; 2.1 mi NE. of Pleasant Home; 16 ft N. and 100 ft E. of centerline of State Highway 22 at junction of T-rd. NW.; 2 ft lower than State Highway 22; 16 ft E. of powerline pole; 2 ft N. and 2 ft W. of fence corner; in concrete post; standard tablet stamped "TT 17 DWP 1949"

X = 1,816,270 Y = 372,083 38 31 12.03 84 53 31.80

Warsaw, 1.2 mi S. of, along State Highway 35, thence 2.4 mi SE. along State Highway 455; 5.2 mi NW. of Glencoe; 1.8 mi S. of Airway Beacon 5-8; 75 ft SE. of white farmhouse; 25 ft S. and 8 ft W. of centerline of hwy. at junction of private drive W.; 3 ft S. and 7 ft E. of fence corner; in concrete post; standard tablet stamped "TT 22 DWP 1949"

X = 1,819,091 Y = 454,070 38 44 42.66 84 53 03.40

Warsaw, 1.2 mi S. of, along State Highway 35, thence 4.0 mi SE. along State Highway 455; 3.5 mi N. of Glencoe; 40 ft S. and 25 ft E. of centerline of Highway 455 at junction of State Highway 465 S.; 3 ft S. and 1 ft W. of fence corner; in concrete post; standard tablet stamped "TT 23 DWP 1949"

X = 1,823,292 Y = 448,758 38 43 50.44 84 52 09.92

Sparta, 2.0 mi N. of, along State Highway 35, thence 2.0 mi NE. along State Highway 465; 30 ft S. and 15 ft E. of centerline of Highway 465 at junction of drive S.; 2 ft N. of fenceline; in concrete post; standard tablet stamped "TT 24 DWP 1949"

X = 1,820,251 Y = 440,989 38 42 33.44 84 52 47.64

Sparta, 2.0 mi N. of, along State Highway 35, thence 0.1 mi E. along State Highway 465; 3.2 mi NE. of Carson; on top of hill; 645 ft NE. of junction of Highways 35 and 465; 1 ft S. of fenceline; in concrete post; standard tablet stamped "TT 25 DWP 1949" (Reported destroyed, 1969)

X = 1,811,701 Y = 437,908 38 42 02.39 84 54 35.20

Sparta; 67 ft S. and 18 ft W. of SW. corner of L. & N. RR. station; 42 ft NW. of N. rail of main track; 4 ft NW. of telephone pole; in concrete post; standard tablet stamped "TT 26 DWP 1949"

X = 1,812,569 Y = 429,063 38 40 35.02 84 54 23.47

STATION	DESCRIPTION	LATITUDE	LONGITUDE
	PLANE COORDINATES, FEET	° ' "	° ' "

MARKS TIED BY NGS

By E. M. Thompson, 1929; Books C8961-62

Sweet Owen, 0.5 mi SE. of, along State Highway 22; 15 ft S. and 20 ft E. of junction of rd. S. to Breck; 2 ft S. of NW. corner post of fence around barn lot of P. L. Lyons; in concrete post; standard tablet stamped "TT STA NO 34 TN 1929"

X = 1,855,947.39 Y = 383,806.66 38 33 10.362 84 45 13.363

Ethridge, 1.4 mi W. of, along U.S. Highway 42, thence 2.9 mi SW.; 20 ft S. and 5 ft W. of triangle formed by junction of rds. NE. and SW.; 10 ft S. of centerline of rd.; on inside of curve; in concrete post; standard tablet stamped "TT STA NO 44 TN 1929" (Reported disturbed, 1950)

X = 1,886,958.87 Y = 453,237.96 38 44 32.057 84 59 48.860

By D. W. Pinkston, 1949; Book AH 128

Owenton, 2.0 mi N. of, along State Highway 35; 2.3 mi S. of Long Ridge; 7 ft N. and 42 ft E. of centerline of hwy. at junction of I-rd. W.; 75 ft N. of junction of private rd. E.; 2 ft W. of fence; 2 ft E. of light pole; in concrete post; standard tablet stamped "TT 14 DWP 1949"

X = 1,830,865.14 Y = 387,511.81 38 33 45.514 84 50 29.395

Owenton, 5.6 mi SW. of Owen County Courthouse; along State Highway 22; 50 ft W. of NW. corner of church; at Pleasant Home; 44 ft S. of centerline of State Highway 22; 21 ft S. and 13 ft E. of fence corner; in concrete post; standard tablet stamped "TT 18 DWP 1949"

X = 1,810,089.13 Y = 365,332.19 38 30 04.865 84 54 48.943